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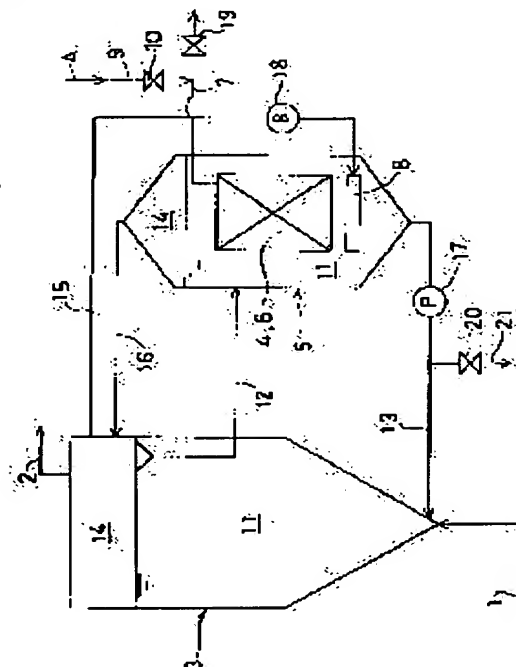
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(54) METHOD FOR CLEANING SEPARATION MEMBRANE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for cleaning a separation membrane used for the solid-liq. separation of digestive sludge generated in a methane fermentation tank, capable of preventing the precipitation of trace metals necessary for the growth of microorganisms and eliminating the clogging of the separation membrane as well.

SOLUTION: A complex forming org. acid A which forms complex ions by bonding with trace metals contained in digestive sludge 11 is injected to the permeation side of a separation membrane 6 and allowed to penetrate into the surface of the membrane 6 to clean the membrane 6 and the waste cleaning liq. is allowed to flow into digestive sludge 11 in a methane fermentation tank 3. The org. acid A not only can dissolve and remove the crystals of metallic sulfides such as iron sulfide and magnesium ammonium phosphate in the pores of the membrane 6 but also can dissolve the trace metals contained in the digestive sludge 11 in the state that microorganisms easily utilize the trace metals and accordingly, methane fermentation efficiency can be enhanced.



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